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#5

SEQUENCE LISTING

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APR 24 2002

TECH CENTER 1600/2300

<110> Quirk, S.

<120> Modular peptide-based reagent

<130> 1443.026US1

<140> US 10/027,038

<141> 2001-12-20

<160> 34

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 36

<212> PRT

<213> Meleagris gallopavo

<400> 1

Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
1 5 10 15
Leu Ile Arg Phe Tyr Asp Asn Leu Gln Tyr Leu Asn Val Val Thr
20 25 30
Arg His Arg Tyr
35

<210> 2

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 2

Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
1 5 10 15
Leu Ile Arg Phe Tyr Asp Asn Leu Gln Trp Leu Asn Val Val Thr
20 25 30
Arg His Arg Tyr
35

<210> 3

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 3

Met Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu
1 5 10 15
Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Tyr Leu Asn Val Val
20 25 30
Thr Arg His Arg Tyr
35

<210> 4

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 4

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Cys | Pro | Ser | Gln | Pro | Thr | Tyr | Pro | Gly | Asp | Asp | Ala | Pro | Val | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Asp | Leu | Ile | Arg | Phe | Tyr | Asp | Asn | Leu | Gln | Gln | Tyr | Leu | Asn | Cys | Val |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Thr | Arg | His | Arg | Tyr | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 5

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 5

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Ser | Gln | Pro | Thr | Tyr | Pro | Gly | Asp | Pro | Ala | Pro | Val | Glu | Asp |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Leu | Ile | Arg | Phe | Tyr | Asp | Asn | Leu | Gln | Gln | Tyr | Leu | Asn | Val | Val | Thr |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Arg | His | Arg | Tyr | | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 6

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 6

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Ser | Gln | Pro | Thr | Tyr | Pro | Gly | Asp | Asp | Gly | Pro | Val | Glu | Asp |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |
| Leu | Ile | Arg | Phe | Tyr | Asp | Asn | Leu | Gln | Gln | Tyr | Leu | Asn | Val | Val | Thr |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Arg | His | Arg | Tyr | | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 7

<211> 4

<212> PRT

<213> Meleagris gallopavo

<400> 7

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| Arg | His | Arg | Tyr | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | |

<210> 8

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> A peptide backbone.

<400> 8
 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
 1 5 10 15
 Leu Ile Arg Phe Tyr Asp Asn Leu Gln Tyr Leu Asn Val Val Thr
 20 25 30
 Ala Ala

<210> 9
 <211> 37
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A peptide backbone.

<400> 9.
 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
 1 5 10 15
 Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Tyr Leu Asn Val Val Thr
 20 25 30
 Arg His Arg Tyr Cys
 35

<210> 10
 <211> 33
 <212> PRT
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<220>
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<400> 10
 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
 1 5 10 15
 Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Tyr Leu Asn Val Val Thr
 20 25 30
 Cys

<210> 11
 <211> 36
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A peptide backbone.

<400> 11
 Met Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Gly Pro Val Glu
 1 5 10 15
 Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Trp Leu Asn Cys Val
 20 25 30
 Thr Ala Ala Cys
 35

<210> 12
 <211> 111
 <212> DNA
 <213> Artificial Sequence

<220>

<223> A nucleotide sequence encoding SEQ ID NO:11.

<400> 12
atgtgccga gccagccgac ctatccgggc gatcccgggc cggtggaaga tctgatccgc 60
ttttatgata acctgcagca gtggctgaac tgcgtgaccg ccgcctgcta g 111

<210> 13
<211> 132
<212> DNA
<213> Artificial Sequence

<220>
<223> A nucleotide sequence encoding SEQ ID NO:11.

<400> 13
acacaccata tgtgccgag ccagccgacc tatccggggc atcccgggcc ggtggaagat 60
ctgatccgct tttatgataa cctgcagcag tggctgaact gcgtgaccgc cgcctgctag 120
ggatccacac ac 132

<210> 14
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> A peptide backbone.

<400> 14
Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Gly Pro Val Glu Asp
1 5 10 15
Leu Ile Arg Phe Tyr Asp Asn Leu Gln Trp Leu Asn Cys Val Thr
20 25 30
Ala Ala Cys
35

<210> 15
<211> 6
<212> PRT
<213> Bos taurus

<400> 15
Pro Tyr Arg Ile Arg Phe
1 5

<210> 16
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> A portion of the recognition sequence from Bovine
Pancreatic Trypsin Inhibitor (PYRIRF, SEQ ID
NO:15) converted into this DNA sequence using E.
coli codon usage.

<400> 16
ccgtatcgca tccgcttt 18

<210> 17
<211> 30
<212> DNA
<213> Artificial Sequence

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<220>
<223> SEQ ID NO:16 with flanking Sma I sites.

<400> 17
cccgggccgt atcgcatccg ctttcccggg          30

<210> 18
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> A peptide interactive domain.

<400> 18
Tyr Lys Leu Lys Tyr
1           5

<210> 19
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> SEQ ID NO:18 converted into this DNA sequence.

<400> 19
tataaactga agtat          15

<210> 20
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> SEQ ID NO:19 with Sma I flanking sequences.

<400> 20
cccggtata aactgaagta tccggg          27

<210> 21
<211> 41
<212> PRT
<213> Artificial Sequence

<220>
<223> A peptide-based reagent that combines the SEQ ID
      NO:15 interactive domain with the SEQ ID NO:11
      peptide backbone.

<400> 21
Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Pro Tyr Arg Ile Arg
1           5           10           15
Phe Gly Pro Val Glu Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln
      20           25           30
Trp Leu Asn Cys Val Thr Ala Ala Cys
      35           40

<210> 22
<211> 40
<212> PRT
<213> Artificial Sequence

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<220>
 <223> A peptide-based reagent that combines the SEQ ID NO:18 interactive domain with the SEQ ID NO:11 peptide backbone.

<400> 22
 Cys Pro Ser Gln Pro Thr Tyr Pro Gly Asp Pro Tyr Lys Leu Lys Tyr
 1 5 10 15
 Gly Pro Val Glu Asp Leu Ile Arg Phe Tyr Asp Asn Leu Gln Gln Trp
 20 25 30
 Leu Asn Cys Val Thr Ala Ala Cys
 35 40

<210> 23
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 23
 acacaccata tgtgcccgag 20

<210> 24
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 24
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<210> 25
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 25
 ccagccgacc tatccgggcg atcccg 27

<210> 26
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 26
 ccaccggccc gggatgccc g gatagg 27

<210> 27
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.
 <400> 27
 gccgggtggaa gatctgatcc gcttttat 28
 <210> 28
 <211> 28
 <212> DNA
 <213> Artificial Sequence
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 <223> An oligonucleotide used to construct SEQ ID NO:13.
 <400> 28
 aggttatcat aaaagcggat cagatctt 28
 <210> 29
 <211> 28
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> An oligonucleotide used to construct SEQ ID NO:13.
 <400> 29
 gataacctgc agcagtggtc gaactgcg 28
 <210> 30
 <211> 29
 <212> DNA
 <213> Artificial Sequence
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 <223> An oligonucleotide used to construct SEQ ID NO:13.
 <400> 30
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 <210> 31
 <211> 29
 <212> DNA
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 <223> An oligonucleotide used to construct SEQ ID NO:13.
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 <210> 32
 <211> 20
 <212> DNA
 <213> Artificial Sequence
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 <223> An oligonucleotide used to construct SEQ ID NO:13.
 <400> 32
 gtgtgtggat ccctagcagg 20
 <210> 33

<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 33

acacaccata tgtgccg

18

<210> 34

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> An oligonucleotide used to construct SEQ ID NO:13.

<400> 34

gtgtgtggat ccctagca

18